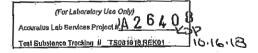
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PROTOCOL

Virucidal Efficacy of a Disinfectant for Use on Inanimate Environmental Surfaces

Virus: Human Coronavirus

PROTOCOL NUMBER

REK01091018.COR

SPONSOR

Reckitt Benckiser One Philips Parkway Montvale, NJ 07645

PERFORMING LABORATORY

Accuratus Lab Services 1285 Corporate Center Drive, Suite 110 Eagan, MN 55121

DATE

September 10, 2018

EXACT COPY
INITIALS DATE 1-31-19

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Virucidal Efficacy of a Disinfectant for Use on Inanimate Environmental Surfaces

PURPOSE

The purpose of this study is to evaluate the virucidal efficacy of a test substance for registration of a product as a virucide. The test procedure is to simulate the way in which the product is intended to be used. This method is in compliance with the requirements of and may be submitted to, one or more of the following agencies as indicated by the Sponsor: U.S. Environmental Protection Agency (EPA), Health Canada and Australian Therapeutic Goods Administration (TGA).

TEST SUBSTANCE CHARACTERIZATION
According to 40 CFR, Part 160, Subport F [160,106] test substance characterization as to identity, strength, purity, solubility and composition, as applicable, shall be documented before its use in this study. The stability of the test substance shall be determined prior to or concurrently with this study. Pertinent information, which may affect the outcome of this study, shall be communicated in writing to the Study Director upon sample submission to Accuratus Lab Services. Accuratus Lab Services will append Sponsor-provided Certificates of Analysis (C of A) to this study report, if requested and supplied. Characterization and stability studies not performed following GLP regulations will be noted in the Good Laboratory Practice compliance statement.

SCHEDULING AND DISCLAIMER OF WARRANTY.

Experimental start dates are generally scheduled on a first-come/first-serve basis once Accuratus Lab Services receives the Sponsor approvedicompleted protocol, signed fee schedule and corresponding test substance(s). Based on all required materials being received at this time, the proposed experimental start date is September 24, 2018. Verbal results may be given upon completion of the study with a written report to follow on the proposed completion date of October 22, 2016. To expedite scheduling, please be sure all required paperwork and test substance documentation is complete/accurate upon arrival at Accuratus Lab Services.

If a test must be repeated, or a portion of it, because of fallure by Accuratus Lab Services to adhere to specified procedures, it will be repeated free of charge. If a test must be repeated, or a portion of it, due to fallure of internal controls, it will be repeated free of charge. "Methods Development" fees shall be assessed, however, if the test substance and/or feet system require modifications due to complexity and difficulty of testing.

if the Sponsor requests a repeat test, they will be charged for an additional test.

Neither the name of Accuratus Lab Services nor any of its employees are to be used in advertising or other promotion without written consent from Accuratus Lab Services.

The Sponsor is responsible for any rejection of the final report by the regulatory agency of its submission concerning report format, pagination, etc. To prevent rejection, Sponsor should carefully review the Accuratus Lab Services final report and notify Accuratus Lab Services of any parceived deficiencies in these areas before submission of the report to the regulatory agency. Accuratus Lab Services will make reasonable changes deemed necessary by the Sponsor, without altering the technical data.

JUSTIFICATION FOR SELECTION OF THE TEST SYSTEM

Regulatory agencies require that a specific virucidal claim for a disinfectant intended for use on hard surfaces be supported by appropriate scientific data demonstrating the efficacy of the test substance against the claimed virus. Each agency will accept adequate data generated by any appropriate technique in support of a virucidal efficacy claim. This is accomplished by treating the target virus with the disinfectant (test substance) under conditions, which simulate as closely as possible, in the laboratory, the actual conditions under which the disinfectant is designed to be used. For disinfectant products intended for use on hard surfaces (dry, inanimate environmental surfaces), a carrier method is used in the generation of the supporting virological data. The Wi-38 cell line, which supports the growth of the Human Coronavirus, will be used in this study. The experimental design in this protocol meets these requirements.

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TEST PRINCIPLE

A film of virus, dried on a glass surface, is exposed to the test substance for a specified exposure time. At the end of the exposure time, the virucidal and cytotoxic activities are removed from the virus-test substance mixture, and the mixture is assayed for viral infectivity by an accepted assay method. Appropriate virus, test substance cytotoxicity, and neutralization controls are run concurrently.

STUDY DESIGN

Dried virus films will be prepared in parallel and used as follows:

The appropriate number of films for each batch of test substance assayed per exposure time requested.

The appropriate number of films for virus control titration (titer of virus after drying) per exposure time requested.

The inoculated carriers are exposed to the test substance for the Sponsor specified exposure time. At the end of the specified exposure time, resuspended virus-test substance mixtures will be detoxified and made non-virucidal by immediately adding the contents to a Sephadex get filtration column followed by 10-fold serial dilutions in test medium. Each dilution is inoculated into indicator cell cultures. The resuspended virus control film and each batch of test substance alone will be treated in exactly the same manner. For analysis of infectivity, cultures will be held for the appropriate incubation period at the end of which time cultures will be scored for the presence of the test virus. Cultures will be monitored at that time for cell viability. Uninfected indicator cell cultures will be carried in parallel and similarly monitored. For analysis of cyloloxicity, the viability of cultures inoculated with dilutions of each test and cytoloxicity control will be determined. In addition to the above titrations for infectivity and cylotoxicity, the residual virucidal activity of the test substance after neutralization will be determined by adding a low titer of stock virus to each dilution of the test substance (cytotoxicity control dilutions). The resulting mixtures of dilutions are assayed for Infectivity in order to determine the dilution(s) of test substance at which virucidal activity, if any, is retained.

VIRUS
The 229E strain of Human Coronavirus to be used for this study was obtained from the American Type Culture
The 229E strain of Human Coronavirus to be used for this study was obtained from the American Type Culture fluid from Colleollon, Manassas, VA (ATCC VR-740). Slock virus is prepared by collecting the supernation culture fluid from 75-100% infected culture cells. The cells are disrupted and cell debris removed by centrifugation. The supernatant is removed, aliquoted, and the high liter stock virus may be stored at ≤ -70°C until the day of use. Alternate methods of viral propagation may be utilized based on the growth requirements of the virus. The propagation method will be specified in the raw data and in the report. On the day of use the appropriate number of allquots are removed, thawed, combined (if applicable) and maintained at a reingerated temperature until used in the assay. Note: If the Sponsor requests an organic soil load challenge, fetal bovine serum (FBS) or the requested organic soil will be incorporated into the stock virus allquot. The stock virus allquot will be adjusted to yield the percent organic soil load requested.

INDICATOR CELL CULTURES

Cultures of WI-38 (human lung) cells were originally obtained from the American Type Culture Collection, Manassas, VA (ATCC CCL-75). The cells are propagated by Accuratus Lab Services personnel. The cells are seeded into multiwell cell culture plates and maintained at 36-38 °C in a humidified atmosphere of 5-7% CO2. The confluency of the cells will be appropriate for the test virus. WI-38 cells obtained from an alternate, reputable source may be used. The source of the cells will be specified in the final report.

All cell culture documentation is retained for the cell cultures used in this assay with respect to source, passage number, growth characteristics, seeding densities and the general condition of the cells,

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TEST MEDIUM

The test medium used for this assay is Minimum Essential Medium (MEM) supplemented with 0-10% (v/v) heat inactivated fetal bovine serum. The medium may also be supplemented with one or more of the following: 10 μg/mL gentamicin, 100 units/mL peniolilin, 2.5 μg/mL amphoterioln B, 1.0-2.0 mM L-glutamine, and 0.5 – 5 μg/mL trypsin. The composition of the test medium may be aftered based on the virus and/or cells. The composition of the medium will be specified in the raw data and in the report.

PREPARATION OF TEST SUBSTANCE

The dilution of test substance(s) will be used as recommended by the Sponsor. The product will be pre-equilibrated to the desired tast temperature if applicable.

PREPARATION OF VIRUS FILMS

Films of virus will be prepared by spreading 200 µL of virus inoculum uniformly over the bottom of the appropriate number of 100 X 15 mm sterile glass petri dishes (without touching the sides of the petri dish). The virus will be airdired at 10°C-30°C until visibly dry (≥20 minutes). A calibrated timer will be used for timing the drying. The drying conditions (temperature and humidity) will be appropriate for the test virus for the purpose of obtaining maximum survival following drying. The actual drying conditions, drying time and calibrated timer used will be clearly documented.

One dried virus film per batch of test substance will be assayed unless otherwise requested.

TEST METHOD

Preparation of Sephadex Gel Filtration Columns

To reduce the cytoloxic level of the virus-test substance mixture prior to assay of virus, and/or to reduce the virus-test substance by fillration through Sephadex get. The type of Sephadex used will be specified in the final report. On the day of testing, Sephadex columns are prepared by centificing the prepared Sephadex get in sterile syringes for three minutes to clear the void volume. The columns are now ready to be used in the assay.

Input Virus Control

On the day of testing, the stock virus utilized in the assay will be titered by 10-fold serial dilution and assayed for infectivity to determine the starting titer of the virus. The results of this control are for informational purposes only.

Treatment of Virus Films with the Test Substance

For each batch of test substance assayed, the appropriate number of dried virus films are individually exposed to a 2.0 mL aliquot of the use dilution of the test substance (liquid products), or to the amount of spray released under use conditions (spray products) and held covered for the specified exposure time(s) and temperature. A calibrated timer will be used for timing the exposure. The actual temperature will be recorded. Just prior to the end of the exposure time, the plates are individually scraped with a cell scraper to resuspend the contents and at the end of the exposure time the virus-test substance mixtures are immediately passed through individual Sephadex columns utilizing the syringe plunger in order to detoxify the mixture. The filtrate (10-1 dilution) is then titered by serial dilution and assayed for infectivity and/or cytotoxicity. To further aid in the removing of the cytotoxic effects of the test substance to the indicator cell cultures, individual dilutions may be passed through additional individual Sephadex columns.

Treatment of Dried Virus Control Film

The appropriete number of virus films are prepared as described previously for each exposure time assayed. The virus control films are run in parallel to the test virus but a 2.0 mL aliquot of test medium is added in lieu of the test substance. The virus control films are held covered and exposed to the test medium for the same exposure time and at the same exposure temperature as the test films are exposed to the test substance. A calibrated timer will be used for timing the exposure and the actual temperature will be recorded. Just prior to the end of the exposure time, the virus films are individually scraped as previously described and at the end of the exposure time the mixtures are immediately passed through individual Sephadex columns utilizing the syringe plunger. The filtrate (10.1 dilution) is then titered by serial dilution and essayed for infectivity. If additional Sephadex columns were used to further reduce the cytotoxic effects in the test substance assay, the same dilutions of the virus control will be passed through additional individual Sephadex columns.

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Cytotoxicity Control

A 2.0 mL aliquid of each batch of test substance (liquid products) or the amount of the test substance recovered when sprayed onto a sterile peth dish (spray products), is filtered through a Sephadex column utilizing the syringe plunger and the filtrate is diluted serially in medium and inoculated into cell cultures for assay of cytotoxicity concurrently with the virus control and test substance-treated virus samples. For spray products, the cytotoxicity control will be held covered for the longest requested exposure time at the requested exposure temperature. A calibrated timer will be used for timing the exposure. If additional Sephadex columns were used to further reduce the cytotoxic effects in the test substance assay, the same dilutions of the cytotoxicity control will be passed through additional individual Sephadex columns.

Assay of Non-Virucidal Level of Test Substance (Neutralization Control)

Each dilution of the neutralized test substance (cytotoxicity control dilutions) will be challenged with an aliquot of low titer stock virus to determine the dilution(s) of test substance at which virucidal ectivity, if any, is retained. Dilutions that show virucidal activity will not be considered in determining reduction of the virus by the test substance.

Using the cytotoxicity control dilutions prepared above, an additional set of indicator cell cultures will be inoculated with a 100 µL aliquot of each dilution in quadruplicate. A 100 µL aliquot of low titer stock virus will be inoculated into each cell culture will and the indicator cell cultures will be incubated along with the test and virus control plates.

Infectivity Assays

The Wi-38 cell line, which exhibits cytopathic effect (CPE) in the presence of Human Coronavirus, will be used as the indicator cell line in the infectivity assays. Cells in multiwell culture dishes will be inoculated in quadruplicate with 100 µL of the dilutions prepared from test and control groups. The input virus control will be inoculated in duplicate. Unifected indicator cell cultures (cell controls) will be inoculated with test medium alone. The cultures are incubated at 31-35°C in a humidified atmosphere of 5-7% CO₂ in sterile disposable cell culture labware for approximately ten days. Periodically throughout the incubation time the outtures will be microscopically observed for the absence or presence of CPE, cytotoxicity and for viability. The observations will be recorded on the raw data worksheets; only the results from the final observations will be reported.

DATA ANALYSIS

Calculation of Titers

Viral and cytotoxicity titers will be expressed as $-\log_{10}$ of the 50 percent titration endpoint for infectivity (TCID₅₀) or cytotoxicity (TCD₅₀), respectively, as calculated by the method of Spearman Karber.

- Log of 1st dilution inoculated
$$-\left[\left(\left(\frac{\text{Sum of \% mortality at each dilution}}{100}\right) - 0.5\right) \times \left(\text{logarithm of dilution}\right)\right]$$

Calculation of Log Reduction

Dried Virus Control Log10 TCID60 - Test Substance Log10 TCID60 - Log Reduction

If multiple dried virus control replicates are performed, the average titer of the replicates will be calculated and the average titer will be used to calculate the log reduction in viral titer of the individual test replicates.

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PROCEDURE FOR IDENTIFICATION OF THE TEST SYSTEM

The specialized virucidal testing section of Accuratus Lab Services maintains Standard Operating Procedures (SOPs) relative to virucidal efficacy testing studies. Virucidal efficacy testing is performed in strict adherence to these SOPs which have been constructed to cover all aspects of the work including, but not limited to, receipt, login, and tracking of biological reagents including virus and cell stocks for purposes of identification, receipt and use of chemical reagents including cell culture medium components, etc. These procedures are designed to document each step of virucidal efficacy testing studies. Appropriate references to medium, batch number, etc. are documented in the raw data collected during the course of each study.

Additionally, each virucidal efficacy test is assigned a unique Project Number when the Study Director initiates the protocol for the study. This number is used for identification of the test culture plates, etc. during the course of the test. Test culture plates are also labeled with reference to the test virus, experimental start date, and test product. These measures are designed to document the identity of the test system.

METHOD FOR CONTROL OF BIAS: N/A

STUDY ACCEPTANCE CRITERIA

Only the applicable acceptance criteria and references for the regulatory agency reviewing the data will be included in the final report.

U.S. EPA, Health Canada, and Australian TGA Submission

A valid test requires 1) that at least 4 log is of infectivity be recovered from the dried virus control film; 2) that when cytotoxicity is evident, at least a 3-log reduction in filer is demonstrated beyond the cytotoxic level; 3) that the cell controls be negative for infectivity. If any of the previous requirements are not met, the test may be repeated under the current protocol number. Note: An efficacious product must demonstrate complete inactivation of the virus at all dilutions.

If the test substance fails to meet the test acceptance criteria and the dried virus control fails to meet the control acceptance criteria, the study is considered valid and no repeat testing is necessary, unless requested by the Sponsor.

If any portion of the protocol is executed incorrectly warranting repeat testing, the test may be repeated under the current protocol number.

FINAL REPORT

The report will include, but not be limited to, identification of the sample and date received, dates on which the test was initiated and completed, identification of the virus strain used and composition of the inoculum, description of cells, medium and reagents, description of the methods employed, tabulated results, calculated titers for infectivity and cytotoxicity, and a conclusion as it relates to the purpose of the test. A draft report may be requested by the Sponsor. The final report will be prepared once the Sponsor has reviewed the draft report and notified the Study Director to complete the study.

PROTOCOL CHANGES

If it becomes necessary to make changes in the approved protocol, the revision and reasons for change will be documented, reported to the Sponsor and will become a part of the permanent file for that study. Similarly, the Sponsor will be notified as soon as possible whenever an event occurs that may have an effect on the validity of the study.

TEST SUBSTANCE RETENTION

Test substance retention shall be the responsibility of the Sponsor. Unused test substance will be discarded following study completion unless otherwise requested.

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RECORD RETENTION

Study Specific Documents

All of the original raw data developed exclusively for this study shall be archived at Accuratus Lab Services for a minimum of five years for GLP studies or a minimum of six months for all other studies following the study completion date. After this time, the Sponsor (or the Sponsor Representative, if applicable) will be contacted to determine the final disposition. These original data include, but are not limited to, the following:

- All handwritten raw data for control and test substances including, but not limited to, notebooks, data forms and calculations.
- Any protocol amendments/deviation notifications.
- 3. All measured data used in formulating the final report.
- Memoranda, specifications, and other study specific correspondence relating to interpretation and evaluation of data, other than those documents contained in the final study report.
- 5. Original signed protocol.
- Certified copy of the final study report.
- 7. Study-specific SOP deviations made during the study.

Facility Specific Documents

The following records shall also be archived at Accuratus Lab Services. These documents include, but are not limited to, the following:

- 1. SOPs which pertain to the study conducted.
- Non study-specific SOP deviations made during the course of this study, which may affect the results obtained during this study.
- 3. Methods which were used or referenced in the study conducted.
- 4. QA reports for each QA inspection with comments.
- Facility Records: Temperature Logs (ambient, incubator, etc.), Instrument Logs, Calibration and Maintenance Records.
- 6. Current curriculum vitae, training records, and job descriptions for all personnel involved in the study.

PROPOSED STATISTICAL METHODS: N/A

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REFERENCES

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Response, E1053-11,
2. American Society of Testing and Materials (ASTM). Standard Practice for Use of Get Filtration Columns for Cytotoxicity Reduction and Neutralization, E1482-12 (Reapproved 2017).

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 Diagnostic Procedures for Viral, Rickettslel, and Chlamydial Infections. Lennette, E.H., Lennette, D.A. and Lennette, E.T. editors. Seventh edition, 1995.

 Blackwell, J.H., and J.H.S. Chen. 1970. Effects of various germicidal chemicals on HEP-2 cell culture and Herpes simplex virus. J. AOAC 53:1229-1236.

7. Health Canada, January, 2014. Guidance Document - Disinfectant Drugs.

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 Association of Official Analytical Chemists (AOAC) Official Method 960.09, Germicidal and Detergent Sanitizing Action of Disinfectants Method [Preparation of Synthetic Hard Water]. In Official Methods of Analysis of the AOAC, 2013 Edition.

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(All blank sections are vortified by the Test Substance Name Project Mac & Cheese - GLP-Efficacy T Project Mac & Cheese - GLP-Efficacy T Testing at the lower certified limit	STUDY INFOR Sponsor or Sponsor Represe Testing, e0942-196 Festing, e0042-196 (LCL) for the hardest-to-t	The River of District Production	signature, unless otherwise noted.) UBatch Number tch 2250-08 tch 2250-09 I is required for registration.
Product Description ☑ Quaternary ammonia ☐ lodophor Approximate Test Substance Actives 0.912%	□ Peracetic acid □ Peroxide	☐ Sodium ☐ Other_	n hypochlorite
(This value is used for neutralization pla Storage Conditions ☑ Room Temperature ☑ 2-8°C ☑ Other	Hazards □ Non ☑ Mate	e known: Use Standar	d Precautions f, Attached for each product
water used will be detern ADAC Synthetic Hard Wa Dother *Note: An equivalent dilution in Test Virus: Human Coronavirus	r Autoclave Sterilized) clave Sterilized) - All tap wannined and reported. ater:400PPM may be made unless office	ater is softened; the wa	ter hardness for the batch of tap
•	temperature (to be based c	n regulatory agency of secify range)	f submission)
Directions for application of aerose ☑ Spray instructions are not appli	ol/spray products: cable.		
Trigger spray application: U Spray carriers using 3 sprays, of Spray carriers using	sprays at a distance	of to in	iches/cm. (circle one)
Organic Soli Load ☐ 1% fetal bovine serum (minimu ☑ 5% fetal bovine serum ☐ Other_			
Number of Carriers to be Tested ☑ One (typical for U.S. EPA subr ☐ Five (required for broad-spectr ② D(IA: ぁ い し し)	um viruoldal claims for Hea		n)

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ACCURATUS Page 10 of 11 SPRAY BOTTLES USED IN TESTING (section only applicable for spray products)
To ensure expected levels of product are delivered, it is recommended that the Sponsor provide the spray bottles used in testing. Please Indicate the desired source of the sprayer bottles used in testing: Sprayer(s) and bollie(s) are provided by the Sponsor ☐ General purpose spray holdle(s) are to be provided by Accuratus Lab Services
☐ The spray nozzle(s) are provided by the Sponsor and general purpose bottle(s) will be provided by Accuratus Lab Services REGULATORY AGENCY(S) THAT MAY REVIEW DATA U,S, EPA Ø Health Canada Therepeutic Goods Administration (Australian TGA) Not applicable - For Internal/other use only (Efficacy result will be based on U.S. EPA requirements) Study to be performed under EPA Good Laboratory Practice regulations (40 CFR Part 160) and in accordance to standard operating procedures. ☑ Yes ☐ No (Non-GLP or Development Study) PROTOCOL MODIFICATIONS Approved without modification Approved with modification Testing to slart after A draft report will be submitted for Sponsor review prior to finalization. (hornates / at co Completer PROTOCOL ATTACHMENTS Supplemental Information Form Attached -

Yes

No TEST SUBSTANCE SHIPMENT STATUS (This section is for informational purposes only.) M Test Substance is already present at Accuratus Lab Services. Test Substance has been or will be shipped to Accuratus Lab Services. Date of expected receipt at Accuratus Lab Services: ☐ Test Substance to be hand-delivered (must arrive by noon at least one day prior to testing or other arrangements made with the Study director). TESTING FACILITY MANAGEMENT VERIFICATION OF 40 CFR PART 160 SUBPART B (160.31(D)) Identify, strength, purity, and uniformity, as applicable, of the test lots has been or will be completed prior to efficacy testing: ☑ Yes ☑ No* ☑ Not required, Non-GLP testing requested If yes, testing was or will be performed following 40 CFR Part 160 GLP regulations: ☑ Yes ☐ No* Optional Information to complete as supplicable: ☑ A Gerlificate of Analysis (C of A) may be provided for each lot of test substance. If provided, the C of A will be appended to the report. Testing has been or will be conducted under protocol or study #: REK01080118.CHR.1 Stability testing of the formulation has been or will be completed prior to or concurrent with efficacy testing: ☑ Yes ☐ No* ☐ Not required, Non-GLP testing requested If yes, testing was or will be performed following 40 CFR Part 160 GLP regulations: ☑ Yes ☐ No* Optional information to complete as applicable: ☐ Testing has been or will be conducted under protocol or study #: *If testing information is not provided or is not performed following GLP regulations, this will be indicated in the GLP compliance statement of the final report.

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SIGNATURE: ROLL WOOD	DATE: 0.5	Septacia
PHONE: (201) 476 - 7766	EMAIL: kelly.v	vhltehead@rb.com
For confidentiality purposes, study information will be re protocol (above) unless other individuals are specifically		
Other individuals authorized to receive information	regarding this study:	☐ See Attached
		<u> </u>
Accuratus Lab Services:		
NAME: Mary J. Miller Study Director	· · · · · ·	
SIGNATURE: Mar, J. Mille Study Director	DATE	10-16-18

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